

OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/903,463

DATE: 08/06/2001  
TIME: 15:38:20

Input Set : A:\ES.txt  
Output Set: N:\CRF3\08062001\I903463.raw

ENTERED

3 <110> APPLICANT: Levy, Andrew P.  
5 <120> TITLE OF INVENTION: NOVEL ANTIOXIDANT, NUCLEIC ACID CONSTRUCTS ENCODING SAME,  
PHARMACEUTICAL  
6 COMPOSITIONS CONTAINING SAME AND USE OF SAME FOR REDUCING OXIDATIVE-STRESS  
8 <130> FILE REFERENCE: 01/22194  
AC--> 10 <140> CURRENT APPLICATION NUMBER: US/09/903,463  
OC--> 10 <141> CURRENT FILING DATE: 2001-07-11  
10 <160> NUMBER OF SEQ ID NOS: 20  
12 <170> SOFTWARE: PatentIn version 3.1  
15 <210> SEQ ID NO: 1  
17 <211> LENGTH: 33  
19 <212> TYPE: DNA  
21 <213> ORGANISM: Artificial sequence ✓  
24 <220> FEATURE:  
26 <223> OTHER INFORMATION: synthetic oligonucleotide ✓  
28 <400> SEQUENCE: 1  
29 cgcggatcca tcctgggtgg acacctggat gcc 33  
32 <210> SEQ ID NO: 2  
34 <211> LENGTH: 36  
36 <212> TYPE: DNA  
38 <213> ORGANISM: Artificial sequence  
41 <220> FEATURE:  
43 <223> OTHER INFORMATION: synthetic oligonucleotide  
45 <400> SEQUENCE: 2  
46 gcggaattct tagttctcag ctatggtctt ctgaac 36  
49 <210> SEQ ID NO: 3  
51 <211> LENGTH: 36  
53 <212> TYPE: DNA  
55 <213> ORGANISM: Artificial sequence  
58 <220> FEATURE:  
60 <223> OTHER INFORMATION: synthetic oligonucleotide  
62 <400> SEQUENCE: 3  
63 cgcggatcca actactccca ggttagatatt gggctc 36  
66 <210> SEQ ID NO: 4  
68 <211> LENGTH: 33  
70 <212> TYPE: DNA  
72 <213> ORGANISM: Artificial sequence  
75 <220> FEATURE:  
77 <223> OTHER INFORMATION: synthetic oligonucleotide  
79 <400> SEQUENCE: 4  
80 gcggaattct tactttttt cggggactgt gct 33  
83 <210> SEQ ID NO: 5  
85 <211> LENGTH: 33  
87 <212> TYPE: DNA  
89 <213> ORGANISM: Artificial sequence  
92 <220> FEATURE:  
94 <223> OTHER INFORMATION: synthetic oligonucleotide  
96 <400> SEQUENCE: 5

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/903,463

DATE: 08/06/2001  
TIME: 15:38:20

Input Set : A:\ES.txt  
Output Set: N:\CRF3\08062001\I903463.raw

97	cgccggattcg tttctgggtg gggcgaaat gcc	33
100	<210> SEQ ID NO: 6	
102	<211> LENGTH: 33	
104	<212> TYPE: DNA	
106	<213> ORGANISM: Artificial sequence	
109	<220> FEATURE:	
111	<223> OTHER INFORMATION: synthetic oligonucleotide	
113	<400> SEQUENCE: 6	
114	gccccattct tacagcatga catacttcag atg	33
117	<210> SEQ ID NO: 7	
119	<211> LENGTH: 33	
121	<212> TYPE: DNA	
123	<213> ORGANISM: Artificial sequence	
126	<220> FEATURE:	
128	<223> OTHER INFORMATION: synthetic oligonucleotide	
130	<400> SEQUENCE: 7	
131	cgccggatccg tagactcagg caatgatgtc acg	33
134	<210> SEQ ID NO: 8	
136	<211> LENGTH: 33	
138	<212> TYPE: DNA	
140	<213> ORGANISM: Artificial sequence	
143	<220> FEATURE:	
145	<223> OTHER INFORMATION: synthetic oligonucleotide	
147	<400> SEQUENCE: 8	
148	gccccattct tatgcttcac attcaggaag ttt	33
151	<210> SEQ ID NO: 9	
153	<211> LENGTH: 738	
155	<212> TYPE: DNA	
157	<213> ORGANISM: Homo sapiens	
160	<400> SEQUENCE: 9	
161	atcctgggtg gacacccgtg tgccaaaggc agcttccct ggcaggctaa gatggttcc	60
163	caccataatc tcaccacagg tgccacgctg atcaatgaac aatggctgt gaccacggct	120
165	aaaaatctct tcctgaacca ttccaaaaat gcaacagcga aagacattgc ccctacttta	180
167	acactctatg tggggaaaaa gcagcttgcg gagattgaga aggttgtct acaccctaacc	240
169	tactcccagg tagatattgg gtcatcaaa ctcaaacaga aggtgtctgt taatgagaga	300
171	gtgatgccc tctgcctacc ttccaaaggat tatgcagaag tagggcggtg gggttatgtt	360
173	tctgggtgg ggcgaatatgc caattttaaa ttactgacc atctgaagta tgtcatgctg	420
175	cctgtggctg accaagacca atgcataagg cattatgaag gcagcacagt ccccgaaaag	480
177	aagacacccga agagccctgt aggggtgcag cccatactga atgaacacac cttctgtgct	540
179	gcatgtctt agtaccaaga agacacccgtc tatggcgatg cgggcagtc ctttgcgtt	600
181	cacgacccgtt aggagaacac ctggatgcg actggatct taagtttga taagagctgt	660
183	gctgtggctg agtatgggtgt gtatgtgaag gtgacttcca tccaaagactg ggttcagaag	720
185	accatagctt agaactaa	738
188	<210> SEQ ID NO: 10	
190	<211> LENGTH: 246	
192	<212> TYPE: DNA	
194	<213> ORGANISM: Homo sapiens	
198	<400> SEQUENCE: 10	
199	aactactccc aggttagatat tggctcatc aaactcaaac agaagggtgc tgttaatgag	60

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/903,463

DATE: 08/06/2001  
TIME: 15:38:20

Input Set : A:\ES.txt  
Output Set: N:\CRF3\08062001\I903463.raw

201	agagtatgc	ccatctgcct	accttcaaag	gattatgcag	aagtagggcg	tgtgggttat	120										
203	gtttctgggt	ggggcgaaa	tgccaatttt	aaatttactg	accatctgaa	gtatgtcatg	180										
205	ctgcctgtgg	ctgaccaaga	ccaatgcata	aggcattatg	aaggcagcac	agtccccgaa	240										
207	aagaag						246										
210	<210>	SEQ ID NO:	11														
212	<211>	LENGTH:	126														
214	<212>	TYPE:	DNA														
216	<213>	ORGANISM:	Homo sapiens														
220	<400>	SEQUENCE:	11														
221	gtttctgggt	ggggcgaaa	tgccaatttt	aaatttactg	accatctgaa	gtatgtcatg	60										
223	ctgcctgtgg	ctgaccaaga	ccaatgcata	aggcattatg	aaggcagcac	agtccccgaa	120										
225	aagaag						126										
228	<210>	SEQ ID NO:	12														
230	<211>	LENGTH:	63														
232	<212>	TYPE:	DNA														
234	<213>	ORGANISM:	Homo sapiens														
238	<400>	SEQUENCE:	12														
239	gtttctgggt	ggggcgaaa	tgccaatttt	aaatttactg	accatctgaa	gtatgtcatg	60										
241	ctg						63										
244	<210>	SEQ ID NO:	13														
246	<211>	LENGTH:	387														
248	<212>	TYPE:	DNA														
250	<213>	ORGANISM:	Homo sapiens														
254	<400>	SEQUENCE:	13														
255	gtagactca	gcaatgatgt	cacggatatc	gcagatgcag	gctgcccga	gccccccgag	60										
257	attgcacatg	gtatgtgga	gcactcggtt	cgctaccagt	gtaagaacta	ctacaaactg	120										
259	cgcacagaag	gagatggagt	atacacctt	aatgataaga	agcagtggat	aaataaggct	180										
261	gttggagata	aacttcctga	atgtgaagca	gatgacggct	gcccgaagcc	ccccgagatt	240										
263	gcacatggct	atgtggagca	ctcggttcgc	taccagtgt	agaactacta	caaactgcgc	300										
265	acagaaggag	atggagtgt	caccttaaac	aatgagaagc	agtggataaa	taaggctgtt	360										
267	ggagataaac	ttcctgaatg	tgaagca				387										
270	<210>	SEQ ID NO:	14														
272	<211>	LENGTH:	210														
274	<212>	TYPE:	DNA														
276	<213>	ORGANISM:	Homo sapiens														
280	<400>	SEQUENCE:	14														
281	gtagactca	gcaatgatgt	cacggatatc	gcagatgcag	gctgcccga	gccccccgag	60										
283	attgcacatg	gtatgtgga	gcactcggtt	cgctaccagt	gtaagaacta	ctacaaactg	120										
285	cgcacagaag	gagatggagt	atacacctt	aatgataaga	agcagtggat	aaataaggct	180										
287	gttggagata	aacttcctga	atgtgaagca				210										
290	<210>	SEQ ID NO:	15														
292	<211>	LENGTH:	245														
294	<212>	TYPE:	PRT														
296	<213>	ORGANISM:	Homo sapiens														
300	<400>	SEQUENCE:	15														
302	Ile	Leu	Gly	Gly	His	Leu	Asp	Ala	Lys	Gly	Ser	Phe	Pro	Trp	Gln	Ala	
303	1				5				10					15			
306	Arg	Met	Val	Ser	His	His	Asn	Leu	Thr	Thr	Gly	Ala	Thr	Leu	Ile	Asn	
307									25					30			

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/903,463

DATE: 08/06/2001  
TIME: 15:38:20

Input Set : A:\ES.txt  
Output Set: N:\CRF3\08062001\I903463.raw

310 Glu Gln Trp Leu Leu Thr Thr Ala Lys Met Leu Phe Leu Asn His Ser  
 311 35 40 45  
 314 Glu Asn Ala Thr Ala Lys Asp Ile Ala Pro Thr Leu Thr Leu Tyr Val  
 315 50 55 60  
 318 Gly Lys Lys Gln Leu Val Glu Ile Glu Lys Val Val Leu His Pro Asn  
 319 65 70 75 80  
 322 Tyr Ser Gln Val Asp Ile Gly Leu Ile Lys Leu Lys Gln Lys Val Ser  
 323 85 90 95  
 326 Val Asn Glu Arg Val Met Pro Ile Cys Leu Pro Ser Lys Asp Tyr Ala  
 327 100 105 110  
 330 Glu Val Gly Arg Val Gly Tyr Val Ser Gly Trp Gly Arg Asn Ala Asn  
 331 115 120 125  
 334 Phe Lys Phe Thr Asp His Leu Lys Tyr Val Met Leu Pro Val Ala Asp  
 335 130 135 140  
 338 Gln Asp Gln Cys Ile Arg His Tyr Glu Gly Ser Thr Val Pro Glu Lys  
 339 145 150 155 160  
 342 Lys Thr Pro Lys Ser Pro Val Gly Val Gln Pro Ile Leu Asn Glu His  
 343 165 170 175  
 346 Thr Phe Cys Ala Gly Met Ser Lys Tyr Gln Glu Asp Thr Cys Tyr Gly  
 347 180 185 190  
 350 Asp Ala Gly Ser Ala Phe Ala Val His Asp Leu Glu Glu Asn Ile Trp  
 351 195 200 205  
 354 Tyr Ala Thr Gly Ile Leu Ser Phe Asp Lys Ser Cys Ala Val Ala Glu  
 355 210 215 220  
 358 Tyr Gly Val Tyr Val Lys Val Thr Ser Ile Gln Asp Trp Val Gln Lys  
 359 225 230 235 240  
 362 Thr Ile Ala Glu Asn  
 363 245  
 366 <210> SEQ ID NO: 16  
 368 <211> LENGTH: 82  
 370 <212> TYPE: PRT  
 372 <213> ORGANISM: Homo sapiens  
 376 <400> SEQUENCE: 16  
 378 Asn Tyr Ser Gln Val Asp Ile Gly Leu Ile Lys Leu Lys Gln Lys Val  
 379 1 5 10 15  
 382 Ser Val Asn Glu Arg Val Met Pro Ile Cys Leu Pro Ser Lys Asp Tyr  
 383 20 25 30  
 386 Ala Glu Val Gly Arg Val Gly Tyr Val Ser Gly Trp Gly Arg Asn Ala  
 387 35 40 45  
 390 Asn Phe Lys Phe Thr Asp His Leu Lys Tyr Val Met Leu Pro Val Ala  
 391 50 55 60  
 394 Asp Gln Asp Gln Cys Ile Arg His Tyr Glu Gly Ser Thr Val Pro Glu  
 395 65 70 75 80  
 398 Lys Lys  
 402 <210> SEQ ID NO: 17  
 404 <211> LENGTH: 42  
 406 <212> TYPE: PRT  
 408 <213> ORGANISM: Homo sapiens  
 412 <400> SEQUENCE: 17

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/903,463

DATE: 08/06/2001  
TIME: 15:38:20

Input Set : A:\ES.txt  
Output Set: N:\CRF3\08062001\I903463.raw

414 Val Ser Gly Trp Gly Arg Asn Ala Asn Phe Lys Phe Thr Asp His Leu  
415 1 5 10 15  
418 Lys Tyr Val Met Leu Pro Val Ala Asp Gln Asp Gln Cys Ile Arg His  
419 20 25 30  
422 Tyr Glu Gly Ser Thr Val Pro Glu Lys Lys  
423 35 40  
426 <210> SEQ ID NO: 18  
428 <211> LENGTH: 21  
430 <212> TYPE: PRT  
432 <213> ORGANISM: Homo sapiens  
436 <400> SEQUENCE: 18  
438 Val Ser Gly Trp Gly Arg Asn Ala Asn Phe Lys Phe Thr Asp His Leu  
439 1 5 10 15  
442 Lys Tyr Val Met Leu  
443 20  
446 <210> SEQ ID NO: 19  
448 <211> LENGTH: 129  
450 <212> TYPE: PRT  
452 <213> ORGANISM: Homo sapiens  
456 <400> SEQUENCE: 19  
458 Val Asp Ser Gly Asn Asp Val Thr Asp Ile Ala Asp Asp Gly Cys Pro  
459 1 5 10 15  
462 Lys Pro Pro Arg Ile Ala His Gly Tyr Val Glu His Ser Val Arg Tyr  
463 20 25 30  
466 Gln Cys Lys Asn Tyr Tyr Lys Leu Arg Thr Glu Gly Asp Gly Val Tyr  
467 35 40 45  
470 Thr Leu Asn Asp Lys Lys Gln Trp Ile Asn Lys Ala Val Gly Asp Lys  
471 50 55 60  
474 Leu Pro Glu Cys Glu Ala Asp Asp Gly Cys Pro Lys Pro Pro Glu Ile  
475 65 70 75 80  
478 Ala His Gly Tyr Val Glu His Ser Val Arg Tyr Gln Cys Lys Asn Tyr  
479 85 90 95  
482 Tyr Lys Leu Arg Thr Glu Gly Asp Gly Val Tyr Thr Leu Asn Asn Glu  
483 100 105 110  
486 Lys Gln Trp Ile Asn Lys Ala Val Gly Asp Lys Leu Pro Glu Cys Glu  
487 115 120 125  
490 Ala  
494 <210> SEQ ID NO: 20  
496 <211> LENGTH: 70  
498 <212> TYPE: PRT  
500 <213> ORGANISM: Homo sapiens  
504 <400> SEQUENCE: 20  
506 Val Asp Ser Gly Asn Asp Val Thr Asp Ile Ala Asp Asp Gly Cys Pro  
507 1 5 10 15  
510 Lys Pro Pro Arg Ile Ala His Gly Tyr Val Glu His Ser Val Arg Tyr  
511 20 25 30  
514 Gln Cys Lys Asn Tyr Tyr Lys Leu Arg Thr Glu Gly Asp Gly Val Tyr  
515 35 40 45  
518 Thr Leu Asn Asp Lys Lys Gln Trp Ile Asn Lys Ala Val Gly Asp Lys

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/903,463

DATE: 08/06/2001

TIME: 15:38:21

Input Set : A:\ES.txt

Output Set: N:\CRF3\08062001\I903463.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date